

Headquarters “Opening Remarks”

....or, why are we here???

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The Goals (from the ESD perspective)



- We're a SCIENCE division within the Agency
 - Hence we like data!
 - We like a lot of data!
 - We like global data!
 - We like data that significantly improve our understanding of the Earth.
- We concentrate on the Earth as a complex and integrated system
 - Therefore, our satellites cover a broad range of observations.
 - As a result, we need many types of instruments. This costs alot!
 - Our budget has not kept up with our appetite for data.
- We are looking for avenues to increase the “return” on a significant, yet cost constrained, investment
 - By “return”, I mean “data”...and “data” that are useful.



Why Common Instrument Interfaces?



- FIRST, this is **NOT** a meeting to talk about the EV-Instrument AO!!!!
 - Opportunities for that will be coming very soon. Be patient!
- NASA ESD is looking at MANY opportunities for NASA instruments to fly on non-NASA space platforms
- NASA ESD is also looking at the potential for non-NASA Earth observing instruments to fly on future NASA ESD platforms.
- Budgets and launch opportunities are NOT infinite. Well understood and well communicated CIs are seen as one way to help keep costs well defined and to improve the likelihood that instruments will fit on a suitable platform.
- CIs help to facilitate partnerships between NASA ESD and other “partners”.
 - These partners could be: other parts of NASA, other parts of the US Government, other space agencies, commercial space operations, ...



Missions that are CII relevant



- Instruments developed through the Earth Venture Instrument (EV-I) AOs
- OCO-3
- SAGE-3 (on ISS)
- EV-2 (particularly any proposal for the ISS or for hosted payloads on commercial platforms)
- Future Decadal Survey missions (as they develop), in particular GEO-CAPE.
- CLARREO (pending any reformulation for a much less expensive mission in the future)
- Potential partner agency instruments on future NASA platforms.



Final Reminders



- CII activities are to provide **GUIDELINES** for building and integrating instruments on platforms.
- It is conceived as a route to make rides on partner platforms and commercial ride shares more transparent to mission development and concept teams, as well as ESD management.
- It is conceived as a way to keep costs well defined, and hopefully transparent, and to increase the probability that the instruments we develop will find compatible platforms.
- Again, this is **NOT** a meeting to discuss the EV-Instrument AO. That time will come soon enough. Be patient.